DIN RAIL TIME RELAY
PRODUCT CATALOG

Ideal For Time And
Light control



SAFETY THAT SAVE

W.I.P. ELECTRIC CO., LTD.

www.wipelectric.com

SINGLE -FUNCTION TIME RELAY



WBT5-2

General

Applications

- WBT5 Single function time relay has the advantages of affordable price, simplicity and easy operation.
- Time relay can be used for electrical appiances, control of lights, heating, motors, pumps, and fans etc.

Function Features

- Comfortable and single function time-range can setting by front panel.
- Multi input voltage AC/DC 24-240V is available.
- Relay status is indicated by LED.
- 1-Module, DIN rail mounting.

Model and connotation

WBT5 —1/2/3

- 1/2/3: Number of contacts
  - 1: 1C On-delay
  - 2: 2C On-delay
  - 3: 1C On-Instantaneous 1C On-delay
- WBT5: WBT5 Series

Technical parameters

Model	WBT5-2
Function	2C On-delay
Supply terminals	A1-A2
Voltage range	AC/DC24-240V(50-60Hz)
Burden	DC1.0W/AC1.0V
Time ranges	0.1S-60M
Time setting	potentionmeter
Time deviation	＜±5%
Repeat accuracy	＜±0.5%
Output	2C On-delay
	2×5A（AC1）
	250VAC／24VDC
Mechanical life	$1*10^7$
Electrical life(AC1)	$1*10^5$
Mounting/DIN rail	Din rail EN/IEC 60715Din rail EN/IEC 60715
Protection degree	IP20
Max. cable (size) mm^2	solid wire max.1×2.5 or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	95.5×18×64mm
Weight	2×SPDT：W240-80g

Time range

	Time range
1S	0.1~1S
6S	0.1~6S
10S	0.1~10S
12S	0.1~12S
30S	0.16S~30S
60S	0.33S~60S
3M	1S~3M
6M	2S~6M
10M	3S~10M
12M	3.5S~12M
30M	7S~30M
60M	14S~60M

ASYMMETRIC CYCLER

General

Applications

- WBT5-R is an-off twin timer that is used to set the switching time of devices so that they can work periodically. It can be Used for industial equipment, lighting control, heating control, etc.
- Time relay can be used for electrical appiances, control of lights, heating, motors, pumps, and fans etc.

Function Features

- Different delay time for on and off can be set separately.
- It works from 24-240VAC/DC.
- Relay status is indicated by the LED indicator.
- One module, 35mm din rail mounting.

Model and connotation

WBT5 – R □

- Number of contacts
  - 1:1× SPDT
  - 2:2× SPDT
- Asymmetric cycler
- WBT5 Series



WBT5-R1



WBT5-R2

Technical parameters

Model	WBT5-R1	WBT5-R2
Function	1C On-delay	2C On-delay
Supply terminals	A1-A2	
Voltage range	AC/DC24-240V(50-60Hz)	
Burden	DC1.0W/AC1.0V	
Time ranges	0.1S-60M	
Time setting	potentionmeter	
Time deviation	＜±5%	
Repeat accuracy	＜±0. 5%	
Output	1C On-delay	2C On-delay
	1×5A（AC1）	2×5A（AC1）
	250VAC／24VDC	
Mechanical life	$1*10^7$	
Electrical life(AC1)	$1*10^5$	
Mounting/DIN rail	Din rail EN/IEC 60715Din rail EN/IEC 60715	
Protection degree	IP20	
Max. cable (size) mm^2	solid wire max.1×2.5 or 2×1.5/with sleeve max.1×2.5(AWG 12)	
Dimensions	95.5×18×64mm	
Weight	1×SPDT:W240-70g	2×SPDT:W240-80g

Time range

	Time range
1S	0.1~1S
6S	0.1~6S
10S	0.1~10S
12S	0.1~12S
30S	0.16S~30S
60S	0.33S~60S
3M	1S~3M
6M	2S~6M
10M	3S~10M
12M	3.5S~12M
30M	7S~30M
60M	14S~60M

MULTI-FUNCTION TIME RELAY

General

Applications

- Multifunction time relay can be used for electrical appliances, control of lights, heating, motor, pumps and fans (10 functions, 10 time ranges, multi-voltage).

Function Features

- 10 functions:
  - 5 time functions controlled by supply voltage
  - 4 time functions controlled by control input
  - 1 function of latching relay
- Comfartable and well-arranged function and time-range setting by rotary switches.
- Time scale 0.1 s - 10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

Model and connotation

WBT7 – A □/□
- Rated control supply voltage:
  - A230:AC230V
  - W240:AC/DC12V-240V
- Number of contacts
  - 1:1× SPDT
  - 2:2× SPDT
- Function mode:
- WBT7 Series



WBT7-A1

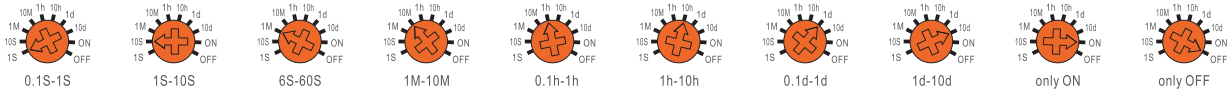


WBT7-A2

Technical parameters

Model	WBT7-A1	WBT7-A2
Function	A,B,C,D,E,F,G,H,I,J	
Supply terminals	A1-A2	
Voltage range	AC/DC12-240V(50-60Hz)	
Burden	AC0.09-3VA/DC0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	ACmax.6VA/1.3W	ACmax.6VA/1.9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days,ON,OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/℃,at=20℃(0.05%℉ = at 68℉)	
Output	1×SPDT	2×SPDT
Current rating	1×16A(AC1)	2×16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1×10^7	
Electrical life(AC1)	1×10^5	
Reset time	max.200ms	
Operating temperature	-20℃ to+55℃ (-4℉ to131℉)	
Storage temperature	-35℃to+75℃ (-22℉ to158℉)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max. cable (size) mm^2	solid wire max.1×2.5 or 2×1.5/with sleeve max.1×2.5(AWG 12)	
Dimensions	95.5×18×64mm	
Weight	1×SPDT:W240 62g	2×SPDT:W240 83g
Standards	EN 61812-1,IEC6947-5-1	

Time Range



Functions Diagram

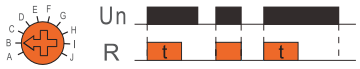
A:On Delay (Power On)

When the input voltage U is applied, time delay t begins. Relay contacts R change state after time delay is complete. Contacts R return to their initial state when input voltage U is removed. Trigger switch is not used in this function.



B:Interval (Power On)

When input voltage U is applied, relay contacts R change state immediately and timing cycle begins. When time delay is complete, contacts return to initial state. When input voltage U is removed, contacts will also return to their initial state.Trigger switch is not used in this function.



C:Repeat Cycle (Starting Off)

When input voltage U is applied, time delay t begins. When time delay t is complete, relay contacts R change state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.



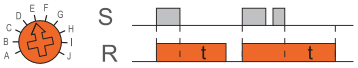
D:Repeat Cycle (Starting On)

When input voltage U is applied, relay contacts R change state immediately and time delay t begins. When time delay t is complete, contacts return to their initial state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.



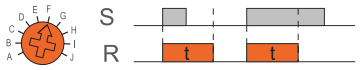
E:Off Delay (S Break)

Input voltage U must be applied continuously. When trigger switch S is closed, relay contacts R change state. When trigger switch S is opened, delay t begins. When delay t is complete, contacts R return to their initial state. If trigger switch S is closed before time delay t is complete, then time is reset. When trigger switch S is opened, the delay begins again, and relay contacts R remain in their energized state. If input voltage U is removed, relay contacts R return to their initial state.



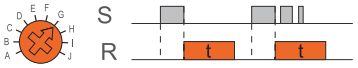
F:Single Shot

Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger switch S when the relay is not energized.



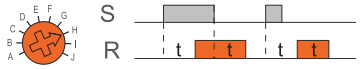
G:Single Shot Trailing Edge (Non-Retriggerable)

Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. At the end of the preset time t, the relay contacts R return to their normal condition unless the trigger switch S is opened and closed prior to time out t (before preset time elapses). Continuous cycling of the trigger switch S at a rate faster than the preset time will cause the relay contacts R to remain closed. If input voltage U is removed, relay contacts R return to their initial state



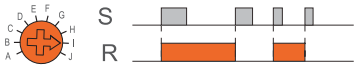
H:On/Off Delay

Input voltage U must be applied continuously. When trigger switch S is closed, time delay t begins. When time delay t is complete, relay contacts R change state and remain transferred until trigger switch S is opened. If input voltage U is removed, relay contacts R return to their initial state.



I:Latching relay

Input voltage U must be applied continuously. Output changes state with every trigger switch S closure. If input voltage U is removed, relay contacts R return to their initial state.



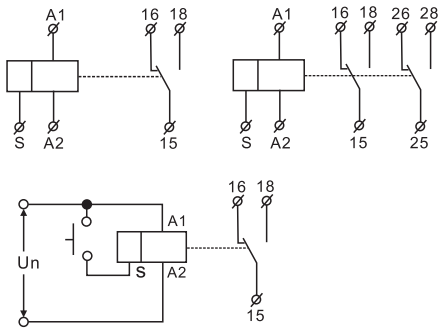
J:Pulse generator

Upon application of input voltage U, a single output pulse of 0.5 seconds is delivered to relay after time delay t. Power must be removed and re-applied to repeat pulse. Trigger switch is not used in this function.



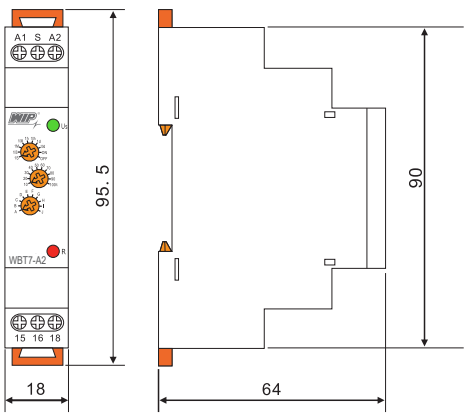
PULS=0.5s

Wiring Diagram



PS.As shown, S-A2 can load (relay, lamp,contactor...) .the load still power on when S closed

Dimensions(mm)



SINGLE -FUNCTION TIME RELAY

General

Applications

- Suitable for applications where function and time requirements are know.
- Time switch, possible to be used for pump delay time after switching heating off, switching of fans

Function Features

- Single-function relay with possibility of time setting by a potentiometer.
- Choice of 2 functions :
  B : Delay ON C : Delay OFF
- Time scale 0.1 s - 10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-Module, DIN rail mounting.

Model and connotation

WBT7 —□ □/□

- Rated control supply voltage:
  A230:AC230V
  W240:AC/DC12V-240V
- Number of contacts
  1:1× SPDT
  2:2× SPDT
- Function mode:
  B - Delay ON
  C - Delay OFF
- WBT7 Series



WBT7-B1



WBT7-C1



WBT7-B2



WBT7-C2

Technical parameters

Model	WBT7-B1/C1	WBT7-B2/C2
Function	B : delay ON	C:delay OFF
Supply terminals	A1-A2	
Voltage range	AC/DC12-240V(50-60Hz)	
Burden	AC0.09-3VA/DC0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	ACmax.6VA/1.3W	ACmax.6VA/1.9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days,ON,OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/℃,at=20℃(0.05%℉=at 68℉)	
Output	1×SPDT	2×SPDT
Current rating	1×16A(AC1)	2×16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1×10^7	
Electrical life(AC1)	1×10^5	
Reset time	max.200ms	
Operating temperature	-20℃to+55℃ (-4℉ to131℉)	
Storage temperature	-35℃to+75℃ (-22℉ to158℉)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max. cable (size) mm^2	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)	
Dimensions	95.5×18×64mm	
Weight	1×SPDT:W240 62g	1×SPDT:W240 83g
Standards	EN 61812-1,IEC6947-5-1	

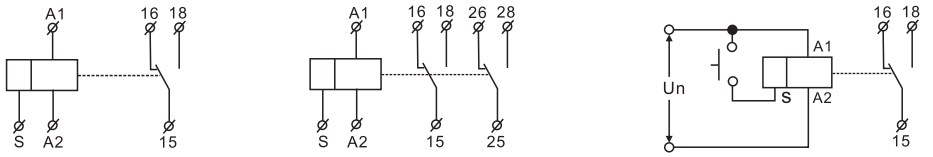
Time Range



Functions Diagram

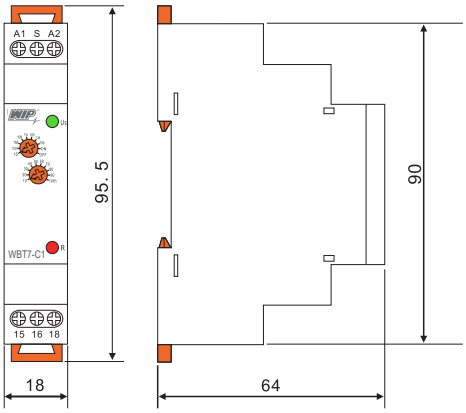


Wiring Diagram



PS.As shown, S-A2 can load (relay, lamp,contactor...) .the load still power on when S closed

Dimensions(mm)



“SAFETY THAT SAVE”

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